

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P633265

Luminaire Tested: GWS-SA2E-735-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633265
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2E-735-U-T2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10779.8 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

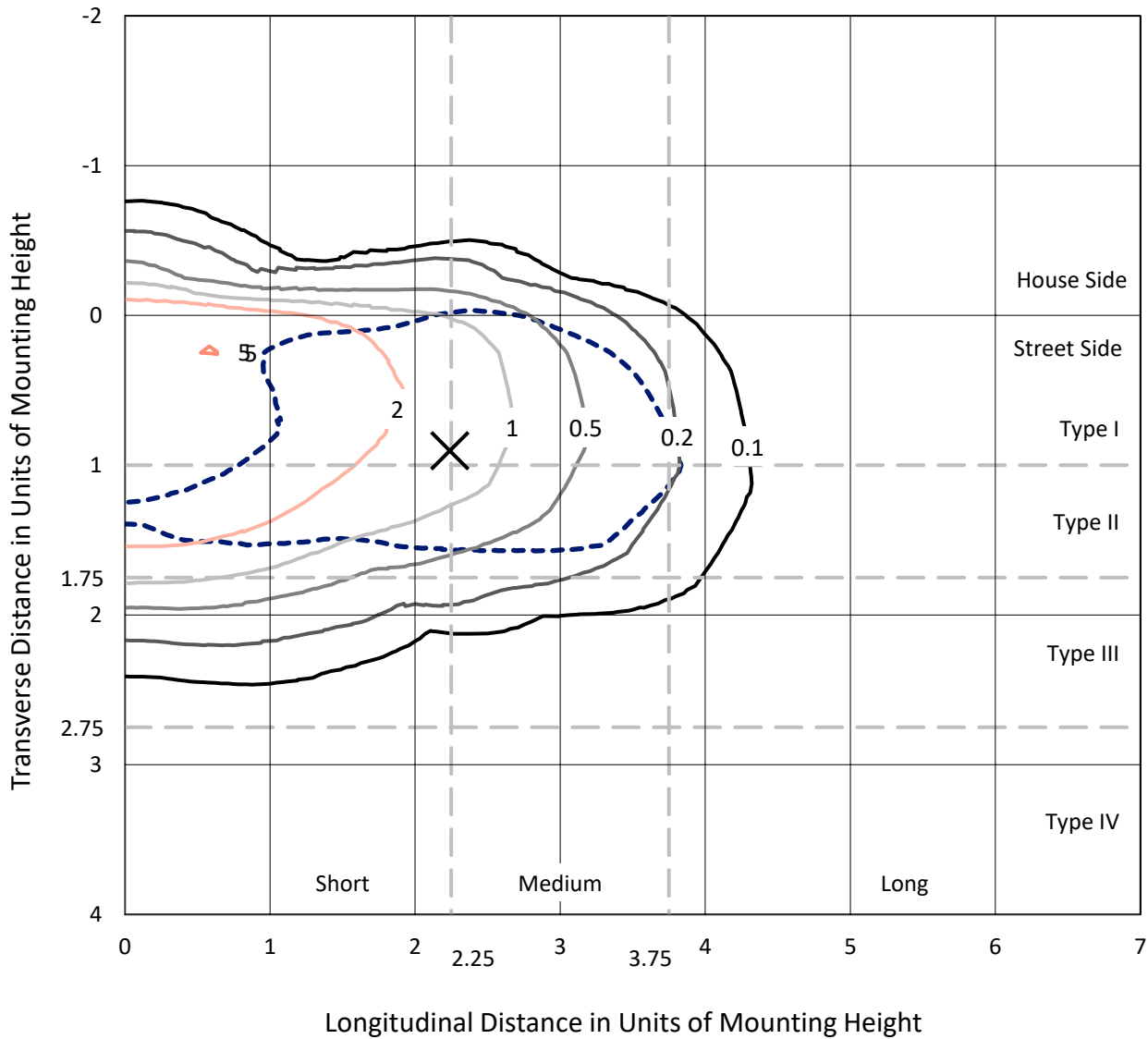
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

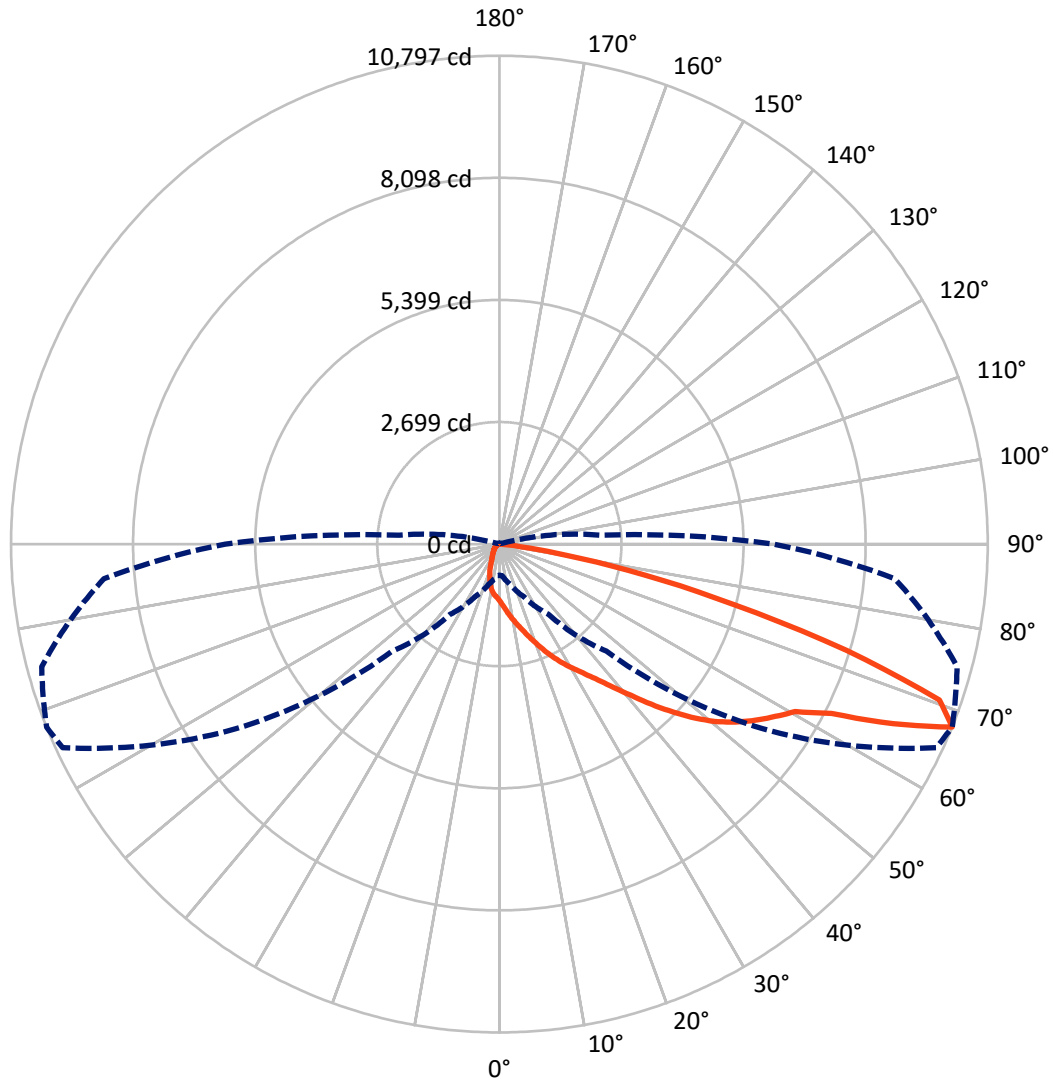
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	778.4	0.0	778.4
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	10001.4	0.0	10001.4
	% Fixture	92.8	0.0	92.8
Total	Lumens	10779.8	0.0	10779.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.3	1.1
10°-20°	351.4	3.3
20°-30°	603.8	5.6
30°-40°	1049.8	9.7
40°-50°	1831.8	17.0
50°-60°	2762.8	25.6
60°-70°	2770.4	25.7
70°-80°	1222.3	11.3
80°-90°	65.3	0.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	10779.8	100.0
0°-180°	10779.8	100.0

Coefficient of Utilization



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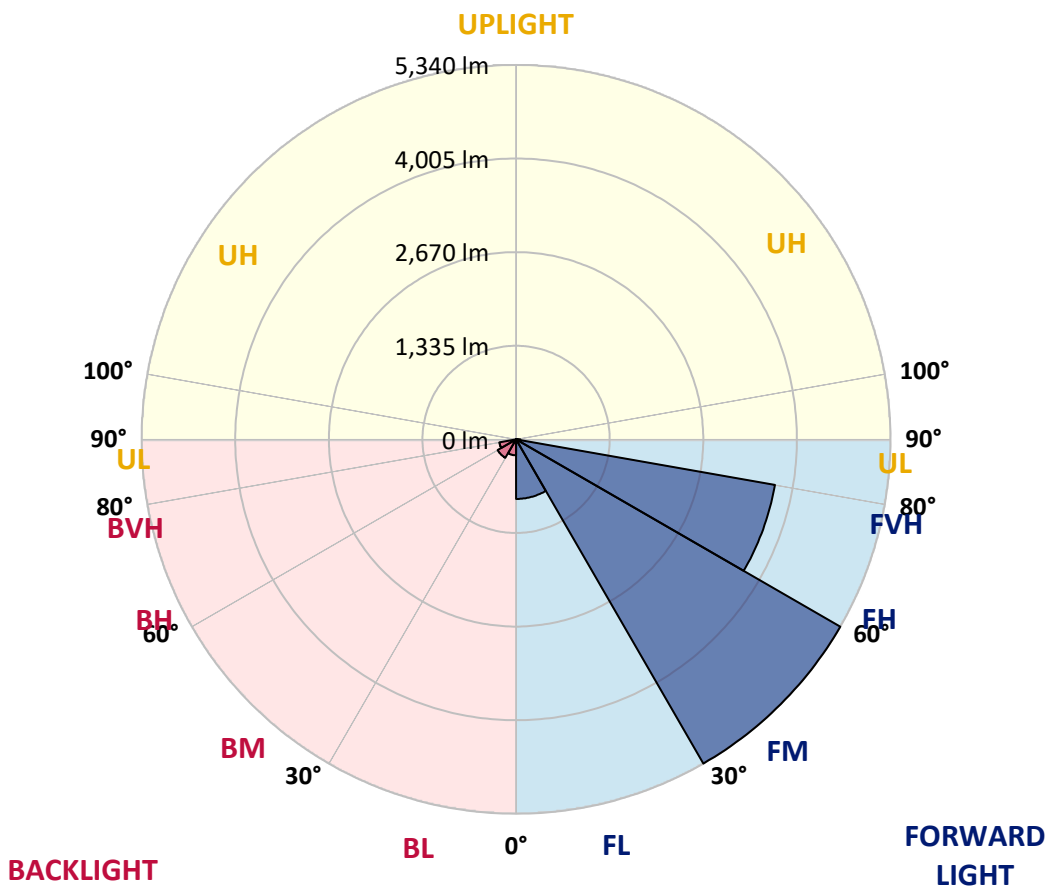
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	849.8	7.9			
FM (30°-60°)	5340.3	49.5			
FH (60°-80°)	3749.7	34.8			G2/5000
FVH (80°-90°)	61.6	0.6			G1/100
BL (0°-30°)	227.7	2.1	B1/500		
BM (30°-60°)	304.1	2.8	B1/1000		
BH (60°-80°)	242.9	2.3	B1/500		G1/500
BVH (80°-90°)	3.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	1254.5	1254.5	1254.5	1254.5	1254.5	1254.5	1254.5	1254.5	1254.5	1254.5	1254.5
2.5°	1460.8	1470.1	1460.8	1462.9	1436.1	1423.7	1396.9	1359.7	1350.4	1326.7	1290.6
5°	1639.3	1647.6	1638.3	1636.2	1605.3	1582.6	1538.2	1474.2	1455.7	1409.2	1338.1
7.5°	1736.3	1741.4	1744.5	1749.7	1738.3	1719.8	1679.5	1600.1	1580.5	1505.2	1405.1
10°	1746.6	1750.7	1766.2	1797.1	1819.8	1831.2	1808.5	1735.2	1704.3	1631.0	1487.6
12.5°	1717.7	1723.9	1748.7	1800.2	1863.2	1920.9	1935.4	1871.4	1843.6	1749.7	1584.6
15°	1679.5	1684.7	1718.7	1788.9	1883.8	1990.1	2049.9	2022.0	1991.1	1893.1	1691.9
17.5°	1620.7	1628.0	1675.4	1770.3	1893.1	2044.7	2173.7	2183.0	2161.3	2055.1	1810.6
20°	1587.7	1592.9	1635.2	1733.2	1886.9	2085.0	2289.2	2376.9	2353.2	2241.8	1946.7
22.5°	1615.6	1619.7	1647.6	1723.9	1866.3	2107.7	2396.5	2570.9	2557.5	2441.9	2090.1
25°	1762.1	1775.5	1759.0	1772.4	1875.6	2120.1	2483.2	2764.8	2767.9	2651.4	2238.7
27.5°	2059.2	2041.6	2002.4	1935.4	1947.8	2153.1	2557.5	2947.4	2974.3	2855.6	2370.7
30°	2361.5	2351.1	2327.4	2223.2	2136.6	2226.3	2620.4	3134.2	3176.5	3056.8	2488.4
32.5°	2700.9	2711.2	2668.9	2544.1	2396.5	2374.9	2685.4	3311.6	3391.1	3284.8	2626.6
35°	3106.3	3109.4	3025.8	2887.6	2720.5	2620.4	2802.0	3507.6	3654.1	3575.7	2811.3
37.5°	3501.4	3520.0	3474.6	3256.9	3108.4	2925.8	2994.9	3759.4	3965.7	3934.7	3043.4
40°	3851.2	3880.1	3865.6	3655.2	3460.2	3306.5	3294.1	4054.4	4342.2	4377.3	3349.8
42.5°	4129.7	4148.3	4159.6	4010.0	3837.8	3751.1	3663.4	4396.9	4786.9	4930.3	3725.3
45°	4423.7	4429.9	4453.7	4352.6	4201.9	4209.2	4099.8	4812.7	5255.3	5543.1	4156.5
47.5°	4798.2	4818.9	4807.5	4701.3	4565.1	4646.6	4550.6	5240.8	5717.4	6197.2	4598.1
50°	5254.2	5275.9	5265.6	5141.8	4990.1	5024.2	4964.3	5656.6	6163.1	6814.1	4965.4
52.5°	5489.4	5507.0	5634.9	5690.6	5611.2	5394.5	5317.2	6113.6	6539.7	7321.7	5302.7
55°	5376.0	5388.3	5666.9	5902.1	6193.0	5976.4	5672.0	6466.4	6871.9	7717.8	5553.4
57.5°	4905.5	4972.6	5351.2	5749.4	6361.2	6551.0	6247.7	6850.2	7191.7	7993.3	5800.0
60°	3940.9	3937.8	4480.5	5195.4	6033.1	6708.9	7060.7	7369.1	7512.5	8204.8	6130.1
62.5°	2177.8	2197.4	2919.6	3861.5	5121.1	6300.3	7670.4	8265.6	8244.0	8574.1	6647.0
65°	1084.3	1123.5	1515.5	2211.9	3407.6	5206.8	7775.6	9633.6	9571.7	9443.8	7714.7
67.5°	688.1	703.6	920.2	1285.4	1894.1	3346.7	7120.5	10653.9	10797.3	10475.4	8774.2
70°	445.7	471.5	639.6	879.0	1143.1	1724.9	5216.1	9992.6	10321.7	10362.0	8114.0
72.5°	242.4	261.0	408.5	627.2	825.3	862.5	2929.9	7499.1	8028.4	8789.7	6347.8
75°	138.2	151.7	223.9	426.1	605.6	525.1	1298.9	5020.0	5357.4	6281.8	4548.6
77.5°	83.6	94.9	125.9	207.4	379.6	350.8	491.1	3055.8	3270.4	3748.0	2387.3
80°	38.2	45.4	79.4	114.5	207.4	166.1	187.8	1424.7	1471.1	1538.2	790.2
82.5°	17.5	20.6	36.1	68.1	117.6	95.9	72.2	329.1	463.2	438.5	201.2
85°	2.1	2.1	13.4	27.9	33.0	24.8	29.9	74.3	93.9	132.1	57.8
87.5°	0.0	0.0	1.0	1.0	2.1	3.1	6.2	9.3	13.4	21.7	14.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1254.5	1254.5	1254.5	1254.5	1254.5	1254.5	1254.5	1254.5	1254.5	1254.5	1254.5
2.5°	1274.1	1245.2	1219.4	1181.2	1155.5	1126.6	1107.0	1083.2	1074.0	1066.7	1056.4
5°	1303.0	1256.6	1193.6	1123.5	1065.7	1011.0	960.5	927.5	898.6	894.4	880.0
7.5°	1350.4	1281.3	1175.1	1060.5	962.5	871.7	800.6	742.8	713.9	704.6	688.1
10°	1413.4	1318.5	1147.2	971.8	830.5	722.2	641.7	576.7	531.3	514.8	502.4
12.5°	1483.5	1352.5	1102.8	862.5	701.5	577.7	475.6	406.5	377.6	367.3	358.0
15°	1564.0	1384.5	1032.7	753.1	575.7	425.0	352.8	322.9	310.5	307.4	304.3
17.5°	1641.4	1405.1	949.1	639.6	442.6	330.1	296.1	284.7	281.6	278.5	276.5
20°	1729.1	1419.6	851.1	532.3	343.5	279.6	263.1	254.8	248.6	242.4	241.4
22.5°	1818.8	1419.6	744.9	427.1	287.8	250.7	232.1	216.6	205.3	199.1	197.0
25°	1904.4	1400.0	639.6	341.5	253.8	222.8	199.1	181.6	166.1	158.9	156.8
27.5°	1965.3	1349.4	547.8	288.9	230.1	198.1	169.2	149.6	137.2	130.0	129.0
30°	2003.5	1274.1	463.2	257.9	209.4	172.3	143.4	126.9	117.6	112.5	110.4
32.5°	2032.4	1181.2	387.9	236.2	189.8	149.6	124.8	111.4	103.2	99.0	98.0
35°	2090.1	1093.6	332.2	216.6	169.2	131.0	109.4	99.0	92.8	87.7	86.7
37.5°	2170.6	1020.3	287.8	199.1	149.6	116.6	99.0	89.8	84.6	79.4	78.4
40°	2289.2	973.9	254.8	181.6	132.1	105.2	90.8	82.5	75.3	70.2	69.1
42.5°	2471.8	952.2	233.2	164.0	116.6	94.9	83.6	73.2	66.0	60.9	59.8
45°	2689.5	963.6	214.6	146.5	106.3	87.7	74.3	64.0	56.7	51.6	50.6
47.5°	2922.7	1003.8	199.1	130.0	95.9	80.5	66.0	54.7	48.5	43.3	42.3
50°	3166.2	1069.8	185.7	114.5	87.7	72.2	56.7	47.5	41.3	37.1	36.1
52.5°	3377.6	1159.6	172.3	103.2	80.5	64.0	49.5	41.3	35.1	30.9	29.9
55°	3579.8	1244.2	162.0	92.8	72.2	55.7	43.3	35.1	29.9	25.8	24.8
57.5°	3799.6	1333.9	149.6	83.6	65.0	49.5	38.2	29.9	25.8	21.7	20.6
60°	4119.4	1467.0	131.0	76.3	56.7	43.3	33.0	26.8	22.7	17.5	16.5
62.5°	4580.6	1709.5	110.4	66.0	48.5	37.1	27.9	22.7	18.6	14.4	12.4
65°	5443.0	2122.1	90.8	54.7	39.2	30.9	23.7	18.6	14.4	10.3	9.3
67.5°	6064.1	2229.4	73.2	44.4	32.0	23.7	19.6	14.4	10.3	7.2	6.2
70°	5301.7	1601.1	56.7	36.1	26.8	18.6	15.5	11.3	7.2	5.2	4.1
72.5°	3994.6	1046.1	42.3	27.9	20.6	15.5	11.3	9.3	6.2	4.1	3.1
75°	2815.4	604.6	30.9	20.6	14.4	11.3	9.3	7.2	5.2	3.1	3.1
77.5°	1443.3	249.7	21.7	14.4	10.3	7.2	6.2	4.1	4.1	3.1	2.1
80°	438.5	82.5	12.4	9.3	7.2	5.2	3.1	3.1	3.1	2.1	1.0
82.5°	100.1	26.8	7.2	7.2	5.2	4.1	3.1	1.0	1.0	0.0	0.0
85°	25.8	8.3	6.2	5.2	5.2	4.1	2.1	1.0	0.0	0.0	0.0
87.5°	9.3	5.2	5.2	5.2	4.1	3.1	2.1	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)